

SDT Full Telecon – 12/19/13

Attendees: Sharon Billings, Natalie Boelman, Josh Fisher, Forrest Hall, Dan Hayes, Jeremy Karchut, Eric Kasischke, Michelle Mack, Dave McGuire, Donald McLennan, Mike Rawlins, Rob Striegl, Matthew Sturm, Colm Sweeney; Rapporteur: Elizabeth Hoy

Topics for Discussion:

- 1) A review of the outcomes from the Ottawa meeting
 - a. The SDT is continuing work on Chapter 4 and is beginning to develop an understanding of the different components needed in that chapter (including overall work strategy and implementation)
 - b. A draft study domain has been selected. The CCE Office will work to create maps showcasing this new study domain.
 - c. Connections have been developed and expanded with Canadian representatives (such as with CHARs, CFS, CSA, etc.).
- 2) A review of ABoVE activities at AGU
 - a. Multiple sessions relevant/related to ABoVE at AGU.
 - b. ABoVE Town Hall – The Town Hall was well attended by members of the community and included discussion of other arctic/boreal research projects. A take home message was to better emphasize connections with international and national scale ongoing projects when presenting the strategy for collaborations within the ACEP.
- 3) A brief update on Chapter 4 activities from each WG
SDT co-chairs have begun an introduction/overview for Chapter 4, and working groups have begun to draft text for individual sections:

Group	Update
Field Studies	The text for this section will focus on understanding key interactions occurring in arctic/boreal regions but will also focus on validating new remote sensing tools. There is a desire to highlight the key interactions which need to be addressed as part of ABoVE within the Chapter 4 text. Final issues are determining “hub” sites for research and outlining the research approach.
Remote Sensing	A framework for this section is in progress. Information has been grouped by sub variables and the group co-chairs will be asking group members to produce summaries for categories of sub variables (including measurements to be made by airborne and spaceborne sensors). The group members will be asked to identify priorities and determine which are relevant to ABoVE, and which are linked to field research. Also under consideration is how to scale up the remote sensing component to cover the entire study domain. Group co-chairs will synthesize information for this group as group members respond to a call for information.
Modeling	This group created an outline of different modeling subsections needed in Chapter 4 including 1) the role of modeling in ABoVE; 2) integration, diagnosis and prediction issues; 3) overall modeling strategy (portfolio approach to modeling); 4) other (overview of general categories of model types simulating ecological processes); 5) calibration and validation of field and remote

	sensing data; 6) model intercomparison and benchmarking. Currently the group is working on filling in these sections with text.
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- 4) Guidance on prescribing the implementation strategy in the Concise Experiment Plan, Chapter 5
 - a. While Chapters 1-3 have tended to be quite broad, the ACEP can be more prescriptive in Chapters 4 and 5 (such as prescribing measurements needed to complete the science objectives, etc.).
 - b. A discussion on this topic followed. SDT members suggested ensuring baseline measurements are made, linking the ACEP research with societal needs/services, and making clear the priorities of ABoVE.
- 5) Discussion of a time-line of SDT activities and schedule for completing the CEP
 - a. A discussion of the ACEP timeline was tabled until a future telecon. However SDT members did bring up topics for discussion:
 - i. Timing of activities during ABoVE – sequence of events regarding field, remote sensing and modeling efforts throughout the campaign
 - ii. Ensuring uncertainty in arctic/boreal modeling is reduced through ABoVE
 - b. Next telecon: Jan. 9, 2014; then alternating every other Wednesday and Thursday until the next SDT meeting (February 3-5th, 2014 in the DC area)